

Figure 1

Cell-Based cAMP Assay

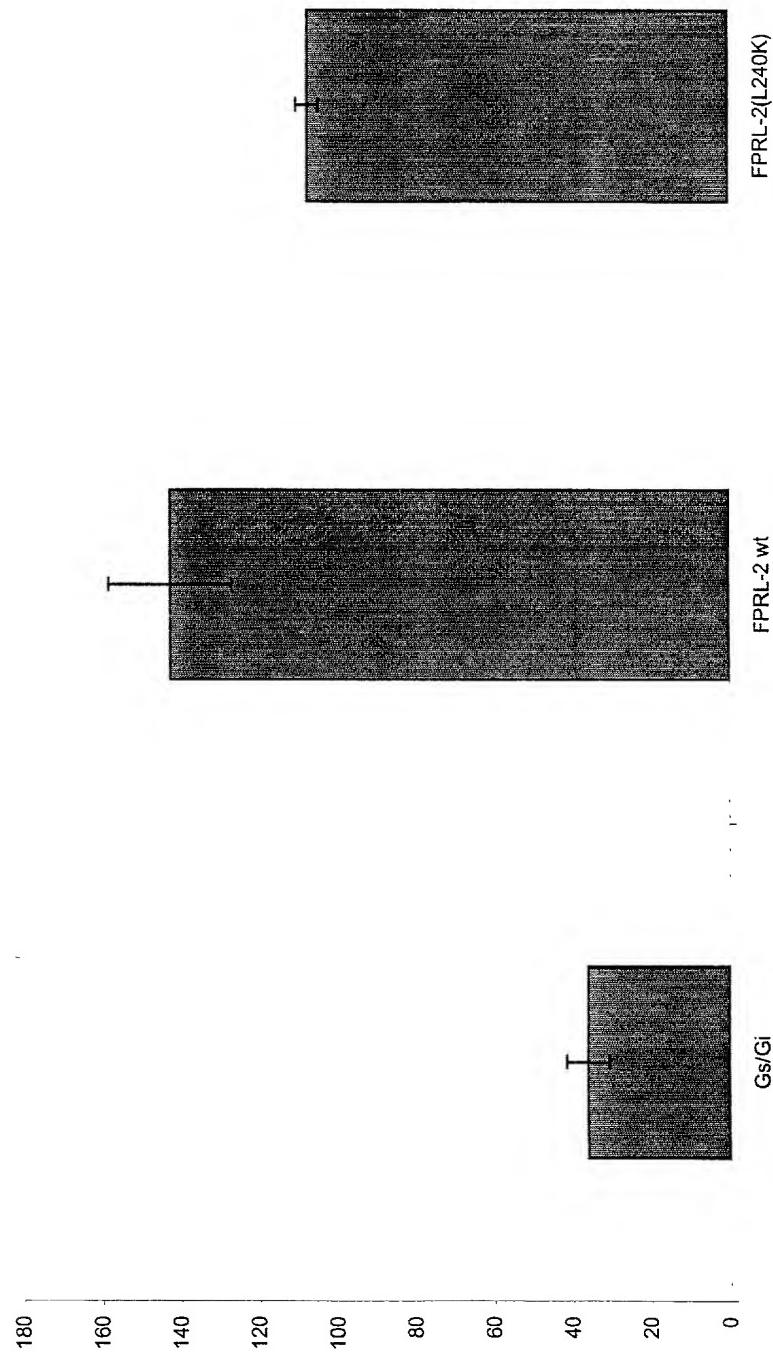


Figure 2

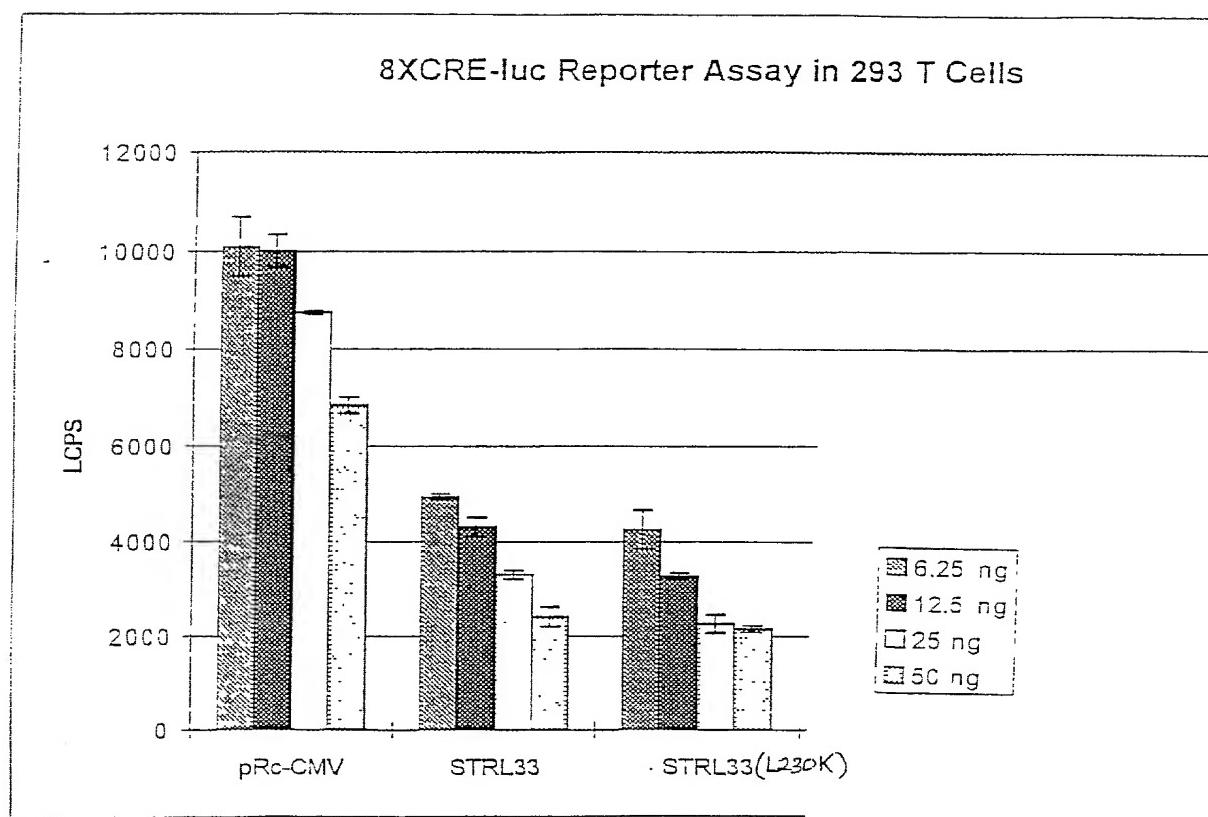
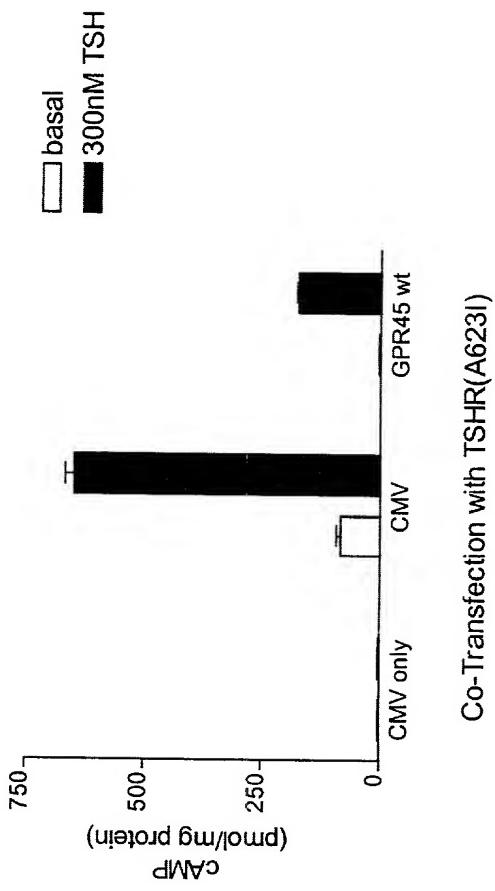


Figure 3

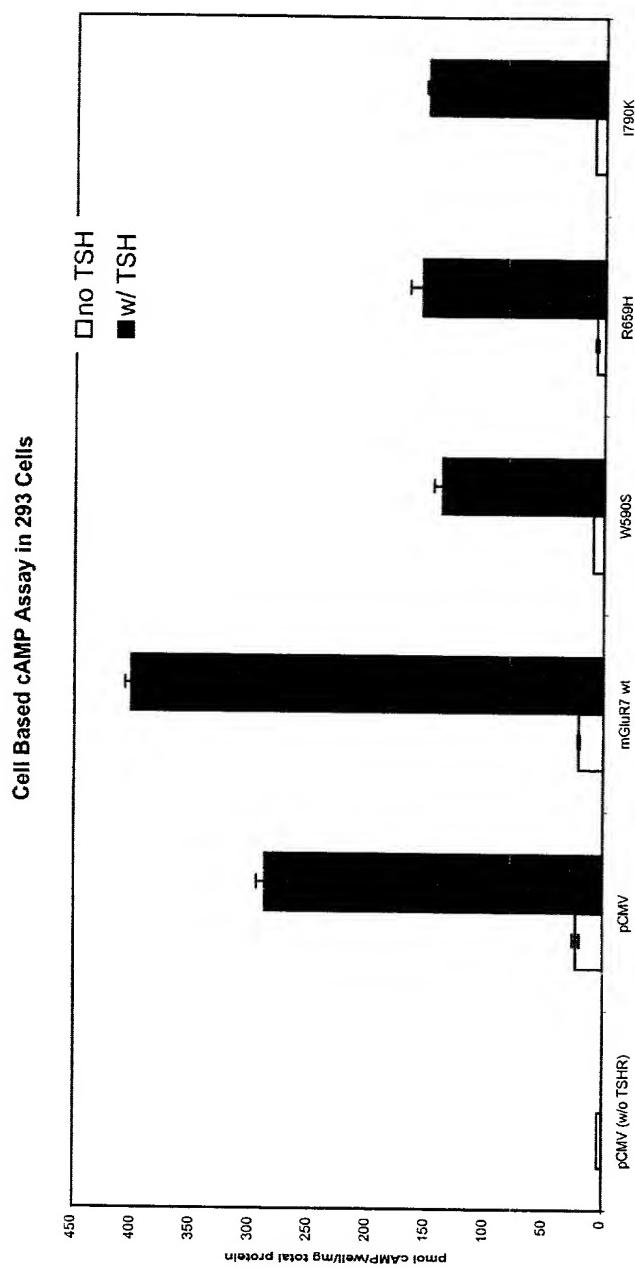
Cell-Based cAMP Assay



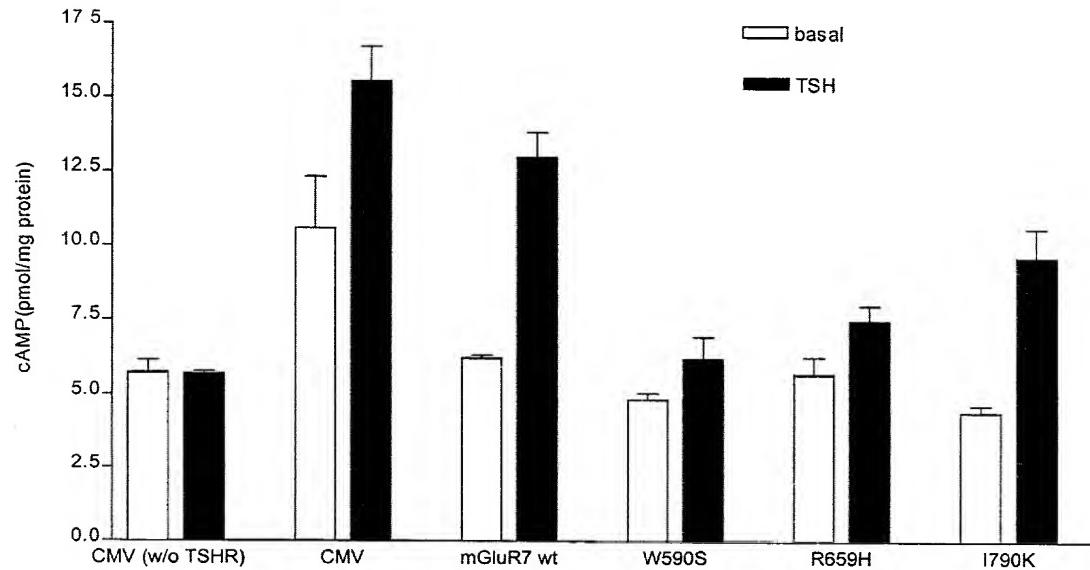
Co-Transfection with TSHR(A623I)

Co-Transfection with TSHR(A623I)

Figure 4



Whole Cell cAMP Assay in RGT Cells



Co-Transfection with TSHR(A623I)

Figure 5

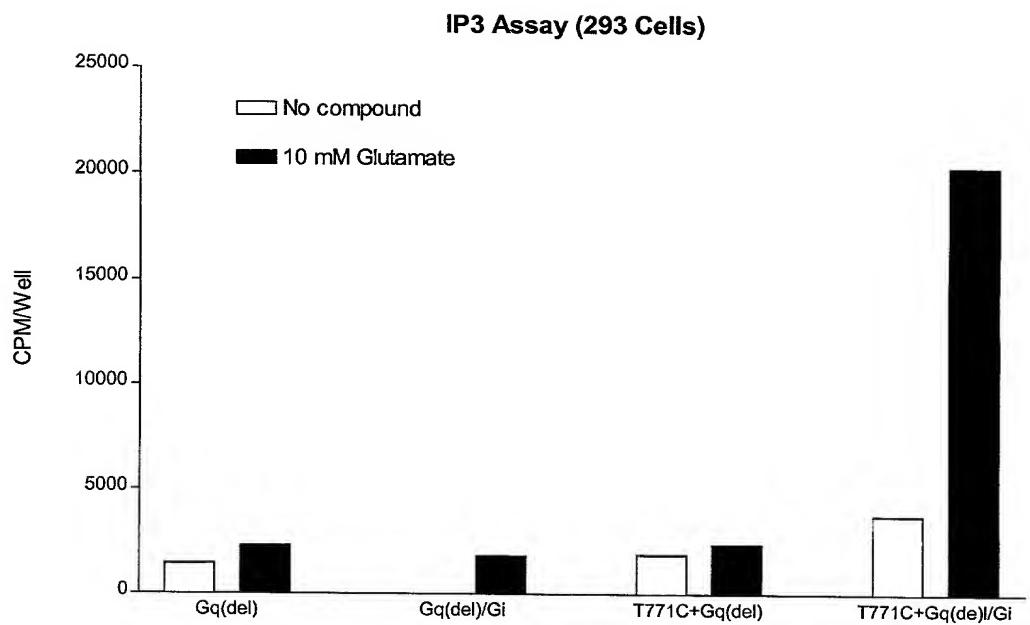


Figure 6

SRE Reporter Assay

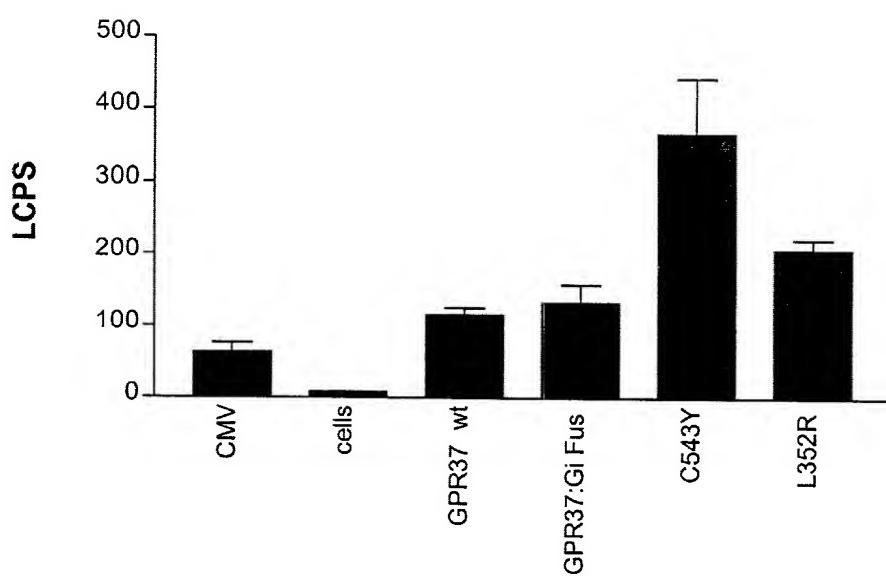


Figure 7

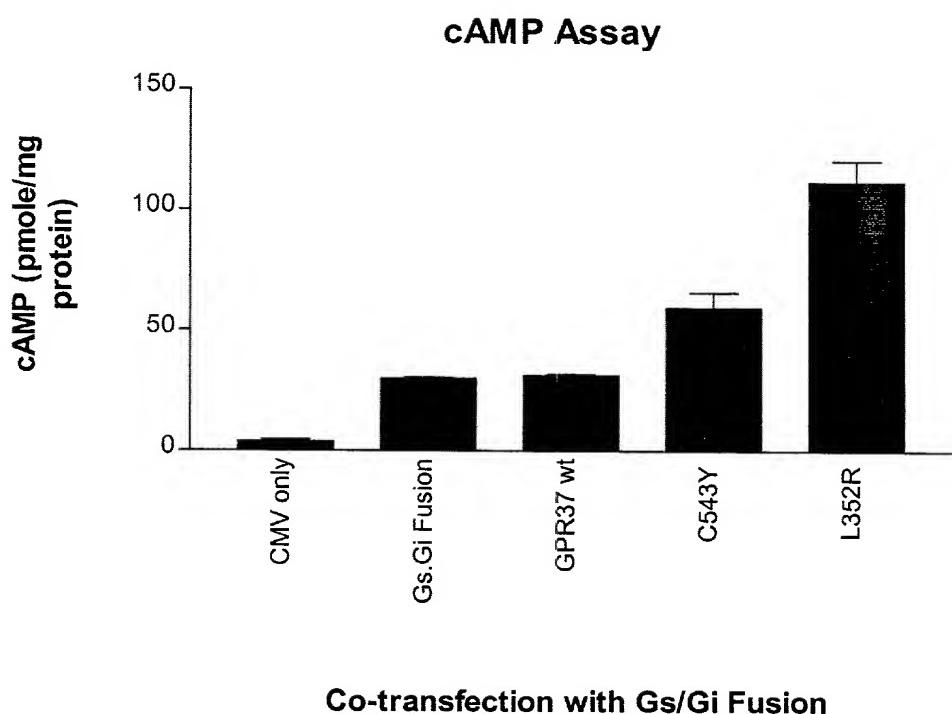


Figure 8

Northern Analysis of GPCR GPR37 expression in forskolin treated Rat Schwann cells

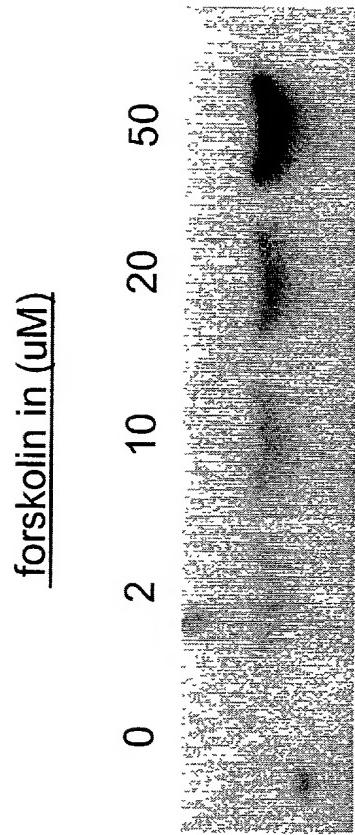


Figure 9

20000 " 2000 " 2000 "

Northern Analysis of GPCR GPR37 Expression in Crushed Rat Sciatic Nerve

Days post-crush

0 1 3 7 10 13

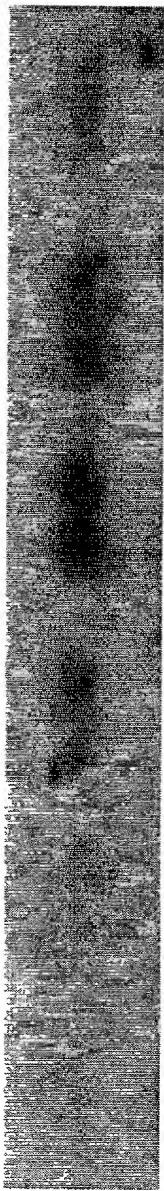


Figure 10

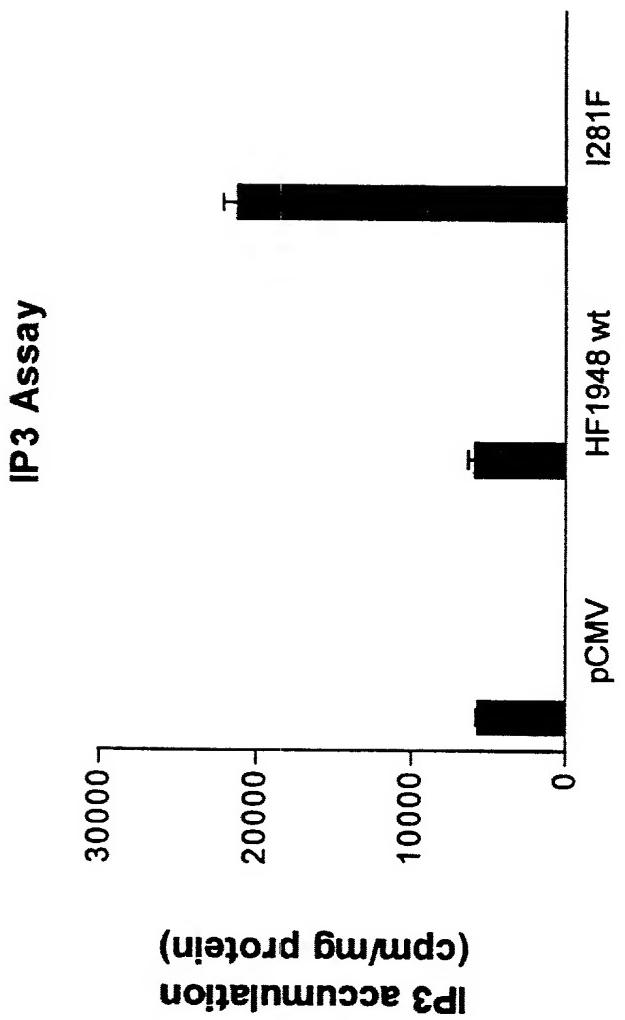


Figure 11

Figure 12

Co-Transfection With TSHR(A623)

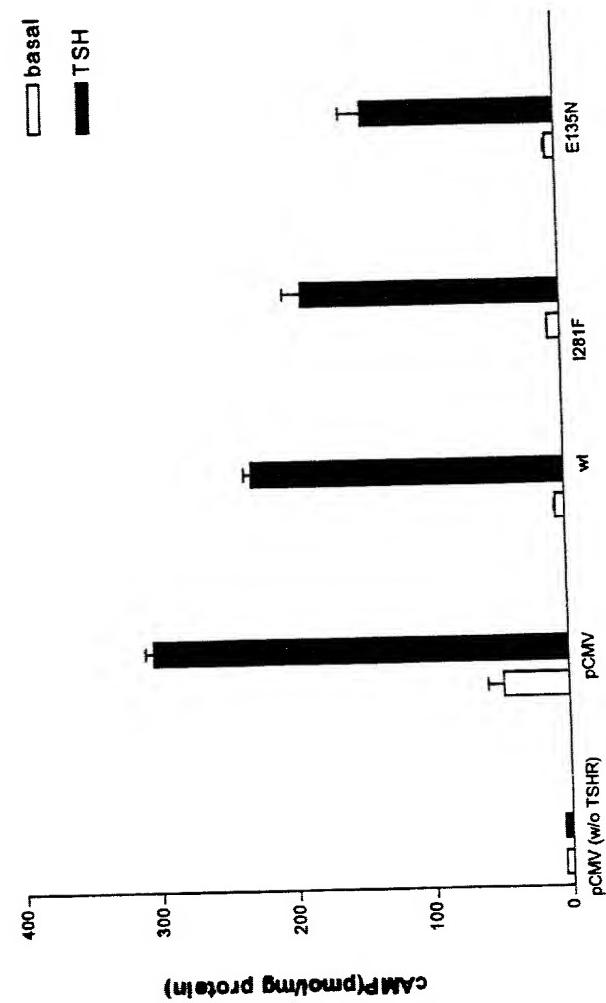
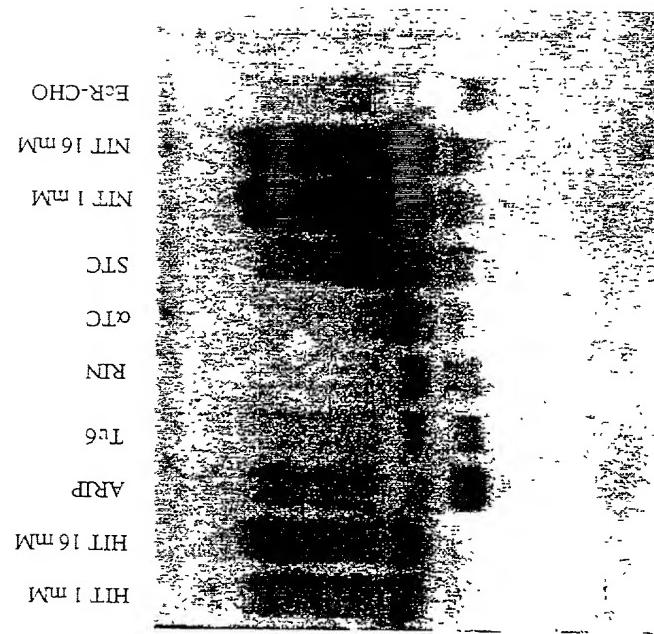


Figure 13

Cell-specific expression of *GPR₆₆* variants in pancreatic cell lines



**E2F-Luc activation by GPR35 in
293A cells**

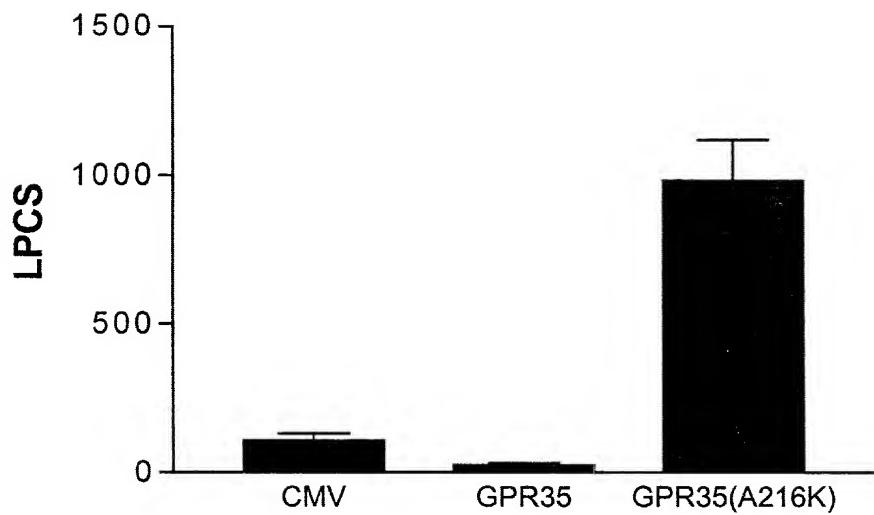
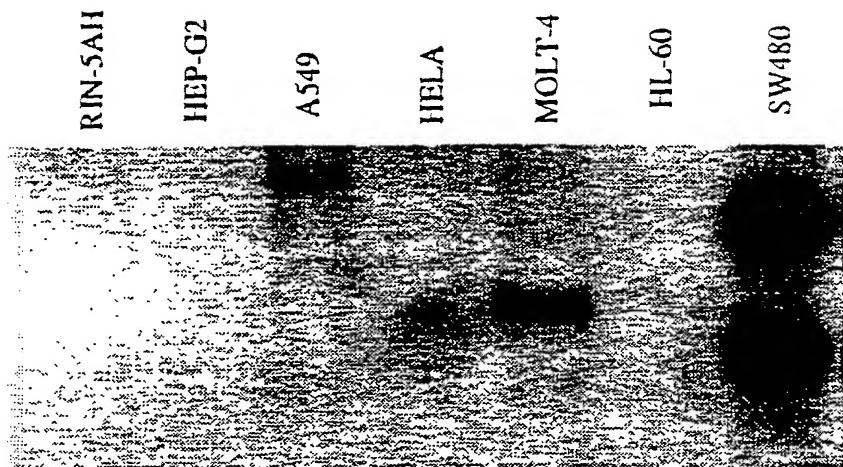


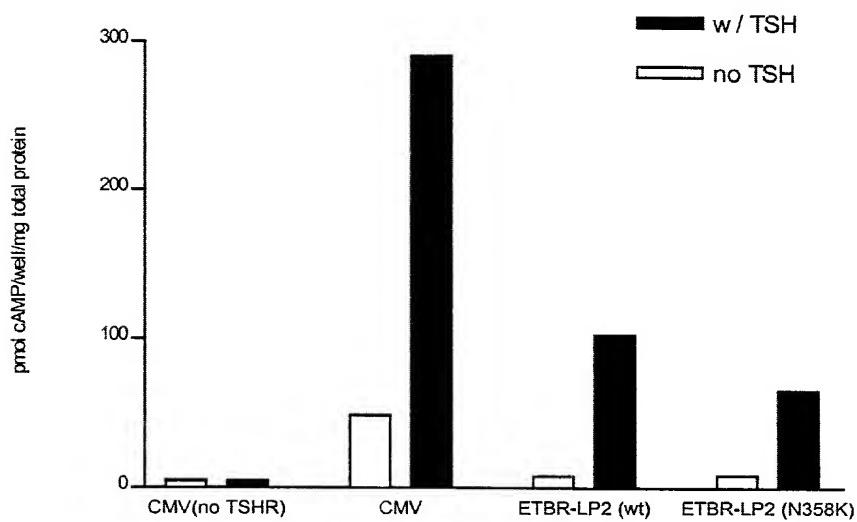
Figure 14

Figure 15

**Expression of GPR35
in colorectal cancer cells**



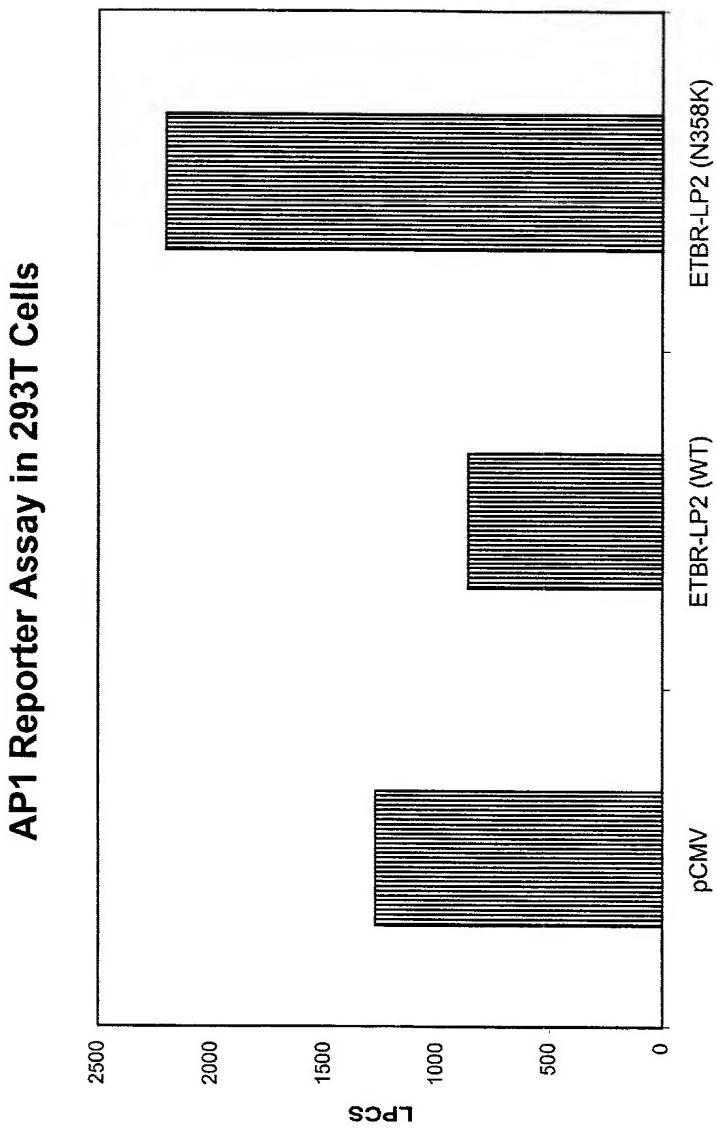
Adenylate Cyclase Assay



Co-Transfection with TSHR(A623I)

Figure 16

Figure 17



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Northern Analysis of ETBR-LP2 in Forskolin Treated Rat Schwann Cells

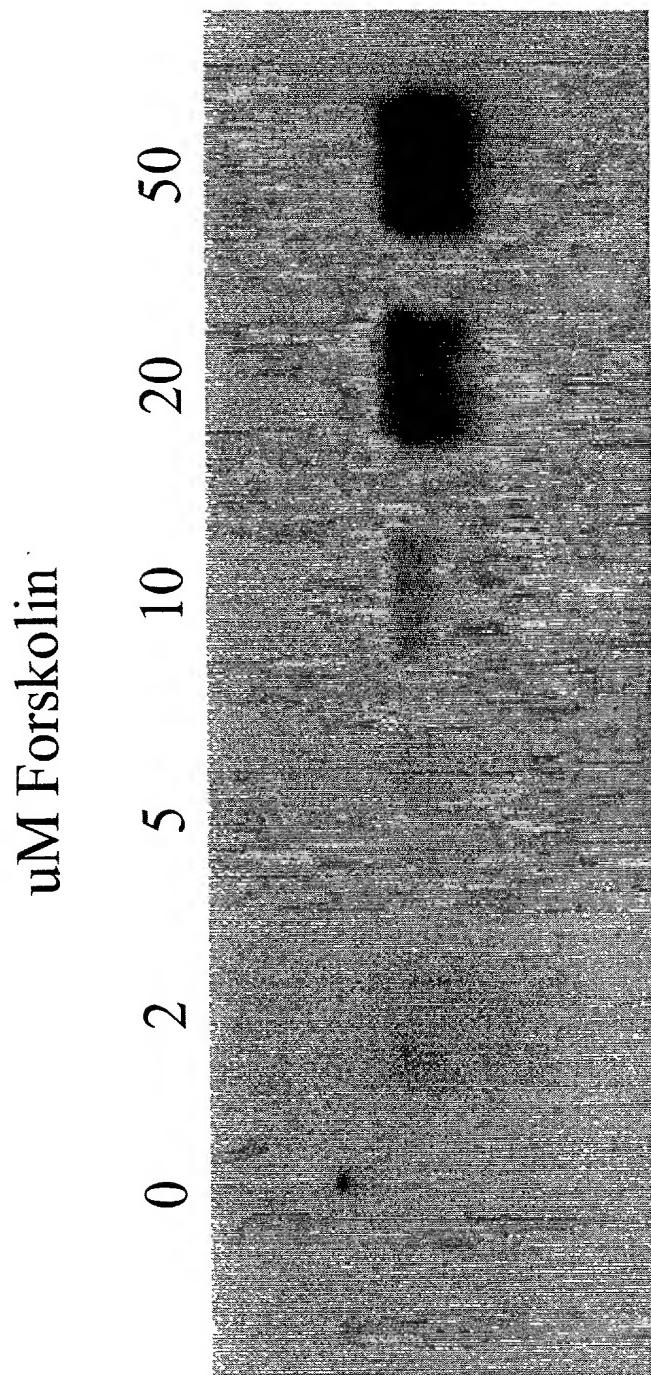


Figure 18

Northern Analysis of ETBR-LP2 Expression in Crushed Rat Sciatic Nerve

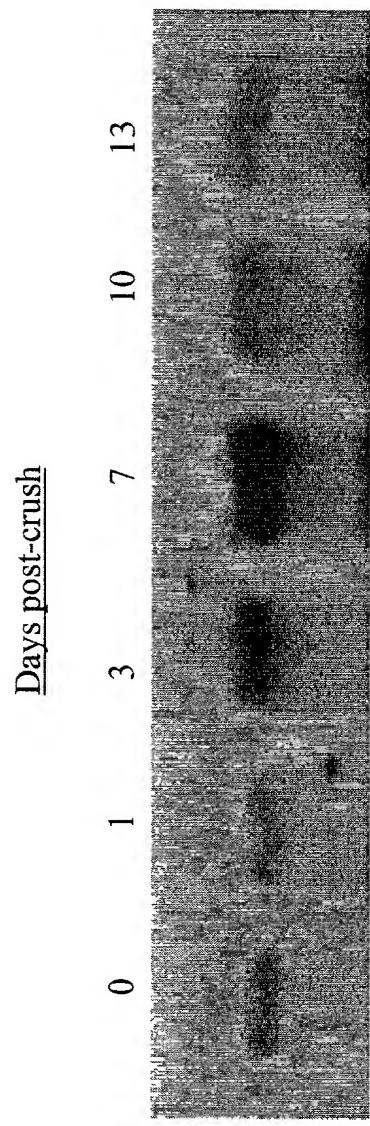


Figure 19

Figure 20A

M R A L G A L A A S L A V L L A V G L L K V S G G A A L G V G P A S R N E T C L Majority

10 20 30 40

1 M R W L W P L A V S L A V I L A V G L S R V S G G A P L H L G - - - - - HETBRP2p
1 M R A P G A L A R M S R L L L L L K V S A S S A L G V A P A S R N E T C L HGPR37p

G E S C A P T V I Q R R G R D A W G P G N S A R D V L R A R A E T E E Q G A A F Majority

50 60 70 80

32 - - - - - - - - - - - - - - - R H R A E T Q E Q Q S - - - HETBRP2p
41 G E S C A P T V I Q R R G R D A W G P G N S A R D V L R A R A P R E E O G A A F HGPR37p

L A G P S W D L P A A P G R D P A A G R G A E A S A A G P P G P P T R P P G P W Majority

90 100 110 120

43 - - - - - - - - - - - - - - - - - - - HETBRP2p
81 L A G P S W D L P A A P G R D P A A G R G A E A S A A G P P G P P T R P P G P W HGPR37p

R W K G A R G T E P S E T L G R G N P T A L Q L F L Q I S D E E A K G V Q G A G Majority

130 140 150 160

43 - - R S K | R G T E - - - - - - - - - D E E A K G V O - - - HETBRP2p
121 R W K G A R G Q E P S E T L G R G N P T A L Q L F L Q I S E E E E K G P R G A G HGPR37p

I S G R S Q E Q S V Q T V P G A S A L F Y R P I H A G G L Q G S H H K P L V A T Majority

170 180 190 200

58 - - - - - - - - - Q Y V P E E W A E Y P R P I H P A G L Q P T - - - K P L V A T HETBRP2p
161 I S G R S Q E O S V K T V P G A S D L F Y W P R R A G K L O G S H H K P L S K T HGPR37p

A N G L A G D G G W T I A L P G S G L A L N G S L G G G I H E P G G P R R G N S Majority

210 220 230 240

86 S P N P D K D G G - - - T P D S G Q E L R G N L T G A - - - P G - - - - - HETBRP2p
201 A N G L A G H E G W T I A L P G R A L A Q N G S L G E G I H E P G G P R R G N S HGPR37p

T N Q R V Q L Q N P L Y P V T E S S Y G A Y A V M L L A V V V F G V G I V G N L Majority

250 260 270 280

112 - - Q R L Q I O N P L Y P V T E S S Y S A Y A I M L A L V V F A V G I V G N L HETBRP2p
241 T N R R V R L K N P F Y F L T Q E S Y G A Y A V M C L S V V I F G T G I I G N L HGPR37p

A V M C I V W H S Y Y L K S A S N S L L A S L A L W D F L V L F F C L P L V I F Majority

290 300 310 320

150 S V M C I V W H S Y Y L K S A W N S I L A S L A L W D F L V L F F C L P I V I F HETBRP2p
281 A V M C I V C H N Y Y M R S I S N S L L A N L A F W D F L I I F F C L P L V I F HGPR37p

N E L T K Q R L L G D V S C K A V P F I E V A S L G V T T F S L C A L G I D R F Majority

330 340 350 360

190 N E I T K Q R L L G D V S C R A V P F M E V S S L G V T T F S L C A L G I D R F HETBRP2p
321 H E L T K K W L L E D F S C K I V P Y I E V A S L G V T T F T L C A L C I D R F HGPR37p

Figure 20B

100E
90E
80E
70E
60E
50E
40E
30E
20E
10E

	H A A T S V L M K V E M I E N C S S I L A K L A V I W V G A L L L A V P E V V L	Majority			
	370	380	390	400	
230	H V A T S T L P K V R P I E R C Q S I L A K L A V I W V G S M T L A V P E L L L	HETBRLP2p			
361	R A A T N V Q M Y Y E M I E N C S S T T A K L A V I W V G A L L L A L P E V V L	HGPR37p			
	R Q L A Q E D A G F S G R G T A D S C I I K I S A S L P D S L Y V L A L T Y D S	Majority			
	410	420	430	440	
270	W Q L A Q E P A - - P T M G T L D S C I M K P S A S L P E S L Y S L V M T Y Q N	HETBRLP2p			
401	R O L S K E D L G F S G R A P A E R C I I K I S P D L P D T I Y V L A L T Y D S	HGPR37p			
	A R L W W Y F G C Y F C L P I L F T V T C S L V T A R K V R G A P G R E S A C T	Majority			
	450	460	470	480	
308	A R M W W Y F G C Y F C L P I L F T V T C Q L V T - W R V R G P P G R K S E C L	HETBRLP2p			
441	A R L W W Y F G C Y F C L P T L F T I T C S L V T A R K I R K A - - - E K A C T	HGPR37p			
	R G S K H E I Q L E S Q L N S T V V G L T V V V Y G F C I L P E N V C N I V V A Y	Majority			
	490	500	510	520	
346	R A S K H E - Q C E S Q L N S T V V G L T V V V Y A F C T L P E N V C N I V V A Y	HETBRLP2p			
478	R G N K R Q I Q L E S Q M N C T V V A L T I L Y G F C I I P E N I C N I V T A Y	HGPR37p			
	L A T G V S Q Q T L D L L G L I S Q F L L F F K G A V T P V L L L C L C K P L G	Majority			
	530	540	550	560	
385	L S T E L T R Q T L D L L G L I N Q F S T F F K G A I T P V L L L C I C R P L G	HETBRLP2p			
518	M A T G V S Q Q T M D L I N I I S Q F L L F F K S C V T P V L L F C L C K P F S	HGPR37p			
	Q A F L D C C C C C C C E E C G G A S S A V A A D G S D N E L T T E V S L S I F	Majority			
	570	580	590	600	
425	Q A F L D C C C C C C C E E C G G A S S E A S A A N G S D N K I L K T E V S S S I Y	HETBRLP2p			
558	R A F M E C C C C C C - E E C I Q K S S T V T S D D N D N E Y T T E L E L S P F	HGPR37p			
	S T I R R E S S T L A S V G T H C	Majority			
	610				
465	F H K P R E S P P L L P L G T P C	HETBRLP2p			
597	S T I R R E M S T F A S V G T H C	HGPR37p			

Decoration 'Decoration #1': Box residues that match the Consensus exactly.

Decoration 'Decoration #2': Box residues that match the Consensus exactly.